

**O'Bryen, Barbara**

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**Fr m:** Switzer, Juliet  
**Sent:** Tuesday, September 09, 2003 10:05 AM  
**To:** O'Bryen, Barbara  
**Subject:** please search

10/085056

please search for this application  
seq id no 1-5 and 15-18 and 24 in all prior art databases.  
please return results on disk.

please do a registry search for seq id no 2 and 15 (and complements), in oligos of 100 bp or fewer, printing alignments, and crossing as appropriate.

THANKS,  
Juliet Switzer  
Art Unit 1634  
703 306 5824  
office CM1 12D15  
mailbox CM1 12E12

=> fil reg; d que 13  
FILE 'REGISTRY' ENTERED AT 14:15:59 ON 09 SEP 2003  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 8 SEP 2003 HIGHEST RN 581771-84-8  
DICTIONARY FILE UPDATES: 8 SEP 2003 HIGHEST RN 581771-84-8

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L2 83 SEA FILE=REGISTRY ABB=ON UGGCGAUUUUAUCUGCAUCCC|GGGAUGCAGAUAAAUC  
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=> d rn cn kwic nte lc 1-12

L3 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 503719-94-6 REGISTRY  
CN GenBank BD174571 (9CI) (CA INDEX NAME)  
SQL 53

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HITS AT: 29-53

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*  
LC STN Files: GENBANK

L3 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 503719-86-6 REGISTRY  
CN GenBank BD174563 (9CI) (CA INDEX NAME)  
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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*  
LC STN Files: GENBANK

L3 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 503719-73-1 REGISTRY  
CN GenBank BD174550 (9CI) (CA INDEX NAME)  
SQL 25

SEQ 1 tttttatcgc tttgctgatt tttca  
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HITS AT: 1-25

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L3 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 503719-60-6 REGISTRY  
CN GenBank BD174537 (9CI) (CA INDEX NAME)  
SQL 20

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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L3 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 493197-45-8 REGISTRY  
CN GenBank AX524907 (9CI) (CA INDEX NAME)  
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\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

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CN GenBank AX524899 (9CI) (CA INDEX NAME)  
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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L3 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 493197-24-3 REGISTRY  
CN GenBank AX524886 (9CI) (CA INDEX NAME)  
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HITS AT: 1-25

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L3 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 493197-11-8 REGISTRY  
CN GenBank AX524873 (9CI) (CA INDEX NAME)  
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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L3 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 455348-91-1 REGISTRY  
CN 36: PN: EP1236806 SEQID: 36 unclaimed DNA (9CI) (CA INDEX NAME)  
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HITS AT: 29-53

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

L3 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 455348-83-1 REGISTRY  
CN DNA, d(T-G-G-C-G-A-T-T-T-A-T-C-T-G-C-A-T-C-C-C-G-T-A-C-G-A-C-T-G-A-T-C-C-C-T-G-C-A) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 28: PN: EP1236806 SEQID: 28 unclaimed DNA

SQL 39

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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

L3 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 455347-93-0 REGISTRY  
CN DNA, d(T-T-T-T-T-A-T-C-G-C-T-T-T-G-C-T-G-A-T-T-T-T-T-C-A) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 15: PN: EP1236806 SEQID: 15 claimed DNA

SQL 25

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HITS AT: 1-25

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

L3 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 455347-80-5 REGISTRY  
CN DNA, d(T-G-G-C-G-A-T-T-T-A-T-C-T-G-C-A-T-C-C-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:

CN 2: PN: EP1236806 SEQID: 2 claimed DNA

SQL 20

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HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

=> fil capl toxcenter uspatf; s 13  
FILE 'CAPLUS' ENTERED AT 14:16:34 ON 09 SEP 2003  
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CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

L4 3 L3

=> dup rem 14  
PROCESSING COMPLETED FOR L4  
L5 2 DUP REM L4 (1 DUPLICATE REMOVED)  
ANSWER '1' FROM FILE CAPLUS  
ANSWER '2' FROM FILE USPATFULL

=> d ibib ab hitrn 1-2; fil hom

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2002:671994 CAPLUS  
DOCUMENT NUMBER: 137:215237  
TITLE: Oligonucleotide and method for detecting verotoxin for  
the diagnostic application  
INVENTOR(S): Maruyama, Takahiro; Ishiguro, Takahiro; Taya, Toshiki  
PATENT ASSIGNEE(S): Tosoh Corporation, Japan  
SOURCE: Eur. Pat. Appl., 36 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1236806	A2	20020904	EP 2002-4879	20020304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002253257	A2	20020910	JP 2001-58143	20010302
US 2003008305	A1	20030109	US 2002-85056	20020301
PRIORITY APPLN. INFO.:			JP 2001-58143	A 20010302

AB An oligonucleotide capable of binding to the intramol. structure-free region of Verotoxin type 1 RNA or Verotoxin type 2 RNA at relatively low and const. temp., and which can be used in a const. temp. nucleic acid amplification method, is provided. Also, a simple, speedy and highly sensitive method for detecting Verotoxin type 1 RNA or Verotoxin type 2 RNA is provided.

IT **455347-80-5 455347-93-0**  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);  
ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(nucleotide sequence of PCR primer; oligonucleotide and method for detecting verotoxin for diagnostic application)

IT **455348-83-1 455348-91-1**  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; oligonucleotide and method for detecting verotoxin for the diagnostic application)

L5 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 2003:10610 USPATFULL  
TITLE: Oligonucleotide and method for detecting verotoxin  
INVENTOR(S): Maruyama, Takahiro, Yokohama-shi, JAPAN  
Ishiguro, Takahiko, Yokohama-shi, JAPAN  
Taya, Toshiki, Sagamihara-shi, JAPAN  
PATENT ASSIGNEE(S): TOSOH CORPORATION, Shinnanyo-shi, JAPAN, 746-8501  
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003008305	A1	20030109
APPLICATION INFO.:	US 2002-85056	A1	20020301 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-58143	20010302
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	1108	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An oligonucleotide capable of binding to the intramolecular structure-free region of Verotoxin type 1 RNA or Verotoxin type 2 RNA at relatively low and constant temperature, and which can be used in a constant temperature nucleic acid amplification method, is provided. Also, a simple, speedy and highly sensitive method for detecting Verotoxin type 1 RNA or Verotoxin type 2 RNA is provided.

IT **455347-80-5 455347-93-0**  
(nucleotide sequence of PCR primer; oligonucleotide and method for detecting verotoxin for diagnostic application)

IT **455348-83-1 455348-91-1**  
(unclaimed nucleotide sequence; oligonucleotide and method for detecting verotoxin for the diagnostic application)

FILE 'HOME' ENTERED AT 14:16:47 ON 09 SEP 2003



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books	
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Limits		Preview/Index		History		Clipboard		Details	
Display	default	Show	20	Send to	File	Get Subsequence			

[1: BD174571. Oligonucleotide f...\[gi:29120261\]](#)

[Links](#)

LOCUS BD174571 53 bp DNA linear PAT 18-MAR-2003  
DEFINITION Oligonucleotide for detecting Vero toxin and detection method.  
ACCESSION BD174571  
VERSION BD174571.1 GI:29120261  
KEYWORDS JP 2002253257-A/36.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1 (bases 1 to 53)  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide for detecting Vero toxin and detection method  
JOURNAL Patent: JP 2002253257-A 36 10-SEP-2002;  
TOSOH CORP  
COMMENT OS Artificial Sequence  
PN JP 2002253257-A/36  
PD 10-SEP-2002  
PF 02-MAR-2001 JP 2001058143  
PI TAKAHIRO MARUYAMA,TAKAHIKO ISHIGURO,TOSHITAKA TAYA PC  
C12N15/09,C12Q1/68,G01N33/53,G01N33/566,C12N15/00 CC 1-st  
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Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books	
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Display:	default	Show:	20	Send to	File	Get Subsequence			

[1: BD174563. Oligonucleotide f...\[gi:29120253\]](#)[Links](#)

LOCUS BD174563 39 bp DNA linear PAT 18-MAR-2003  
DEFINITION Oligonucleotide for detecting Vero toxin and detection method.  
ACCESSION BD174563  
VERSION BD174563.1 GI:29120253  
KEYWORDS JP 2002253257-A/28.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1 (bases 1 to 39)  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide for detecting Vero toxin and detection method  
JOURNAL Patent: JP 2002253257-A 28 10-SEP-2002;  
TOSOH CORP  
COMMENT OS Artificial Sequence  
PN JP 2002253257-A/28  
PD 10-SEP-2002  
PF 02-MAR-2001 JP 2001058143  
PI TAKAHIRO MARUYAMA,TAKAHIKO ISHIGURO,TOSHITAKA TAYA PC  
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## Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Book
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Limits		Preview/Index		History		Clipboard		Details
Display	default	Show	20	Send to	File	Get Subsequence		

[1: BD174550. Oligonucleotide f...\[gi:29120240\]](#)

[Links](#)

LOCUS BD174550 25 bp DNA linear PAT 18-MAR-2003  
DEFINITION Oligonucleotide for detecting Vero toxin and detection method.  
ACCESSION BD174550  
VERSION BD174550.1 GI:29120240  
KEYWORDS JP 2002253257-A/15.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide for detecting Vero toxin and detection method  
JOURNAL Patent: JP 2002253257-A 15 10-SEP-2002;  
TOSOH CORP  
COMMENT OS Artificial Sequence  
PN JP 2002253257-A/15  
PD 10-SEP-2002  
PF 02-MAR-2001 JP 2001058143  
PI TAKAHIRO MARUYAMA,TAKAHIKO ISHIGURO,TOSHITAKA TAYA PC  
C12N15/09,C12Q1/68,G01N33/53,G01N33/566,C12N15/00 CC  
Oligonucleotide for amplifying VT1 RNA  
FH Key Location/Qualifiers  
FT source 1..25  
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FEATURES Location/Qualifiers  
source 1..25  
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PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search	Nucleotide	for					Go	Clear
Limits		Preview/Index		History		Clipboard		D tails
Display	default	Show	20	Send to	File	Get Subsequence		

☐ 1: BD174537. Oligonucleotide f...[gi:29120227]

[Links](#)

LOCUS BD174537 20 bp DNA linear PAT 18-MAR-2003  
DEFINITION Oligonucleotide for detecting Vero toxin and detection method.  
ACCESSION BD174537  
VERSION BD174537.1 GI:29120227  
KEYWORDS JP 2002253257-A/2.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide for detecting Vero toxin and detection method  
JOURNAL Patent: JP 2002253257-A 2 10-SEP-2002;  
TOSOH CORP  
COMMENT OS Artificial Sequence  
PN JP 2002253257-A/2  
PD 10-SEP-2002  
PF 02-MAR-2001 JP 2001058143  
PI TAKAHIRO MARUYAMA,TAKAHIKO ISHIGURO,TOSHITAKA TAYA PC  
C12N15/09,C12Q1/68,G01N33/53,G01N33/566,C12N15/00 CC  
Oligonucleotide capable of binding specifically toVT1 RNA FH Key  
Location/Qualifiers  
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BASE COUNT 3 a 6 c 4 g 7 t  
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1 tggcgattta tctgcatccc  
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Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
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☐ 1: AX524907. Sequence 36 from ...[gi:25169994][Links](#)

LOCUS AX524907 53 bp DNA linear PAT 21-NOV-2002  
DEFINITION Sequence 36 from Patent EP1236806.  
ACCESSION AX524907  
VERSION AX524907.1 GI:25169994  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide and method for detecting verotoxin  
JOURNAL Patent: EP 1236806-A 36 04-SEP-2002;  
Tosoh Corporation (JP)  
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## Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
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1: AX524899. Sequence 28 from ...[gi:25169986]

[Links](#)

LOCUS AX524899 39 bp DNA linear PAT 21-NOV-2002  
DEFINITION Sequence 28 from Patent EP1236806.  
ACCESSION AX524899  
VERSION AX524899.1 GI:25169986  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide and method for detecting verotoxin  
JOURNAL Patent: EP 1236806-A 28 04-SEP-2002;  
Tosoh Corporation (JP)  
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PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books	
Search		Nucleotide	for					Go	Clear
Limits		Preview/Index		History		Clipboard		Details	
Display	default	Show	20	Send to	File	Get Subsequence			

[1: AX524886](#). Sequence 15 from ...[gi:25169973]

[Links](#)

LOCUS AX524886 25 bp DNA linear PAT 21-NOV-2002  
DEFINITION Sequence 15 from Patent EP1236806.  
ACCESSION AX524886  
VERSION AX524886.1 GI:25169973  
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SOURCE synthetic construct  
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artificial sequences.  
REFERENCE 1  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide and method for detecting verotoxin  
JOURNAL Patent: EP 1236806-A 15 04-SEP-2002;  
Tosoh Corporation (JP)  
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Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search: Nucleotide		for				Go	Clear	
Limits		Preview/Index		History		Clipboard		Details
Display	default	Show	20	Send to	File	Get Subsequence		

[1: AX524873](#). Sequence 2 from P...[gi:25169960][Links](#)

LOCUS AX524873 20 bp DNA linear PAT 21-NOV-2002  
DEFINITION Sequence 2 from Patent EP1236806.  
ACCESSION AX524873  
VERSION AX524873.1 GI:25169960  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.  
REFERENCE 1  
AUTHORS Maruyama,T., Ishiguro,T. and Taya,T.  
TITLE Oligonucleotide and method for detecting verotoxin  
JOURNAL Patent: EP 1236806-A 2 04-SEP-2002;  
Tosoh Corporation (JP)  
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